



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

May 3, 2000

Lon Thomas
Star Stone Quarries, Inc.
4040 South 300 West
Salt Lake City, Utah 84107

Re: Review of Notice of Intention to Commence Large Mining Operations, American Stone Mining Company, Rosebud Mine, M/003/026, Box Elder County, Utah

Dear Mr. Thomas:

The Division has completed a review of your response to the Division's January 20, 2000 review of your Notice of Intention to Commence Large Mining Operations for the Rosebud Quarry, located in Box Elder County, Utah. This material was received by the Division on March 13, 2000. After reviewing the information, the Division has the following comments which will need to be addressed before tentative approval may be granted. The comments are listed below under the applicable Minerals Rule heading. Please format your response in a similar fashion.

Please, address only the remaining technical review comments in your response and avoid revising other sections of the permit application to the extent possible. Continued changes and additions to proposed mining and reclamation plans will only further delay our final approval of the permit application. We are very anxious to complete the permitting process for this operation and cannot do so if the proposed plans keep changing following each subsequent review of the application.

The Division will suspend further review of the Rosebud Quarry permit application until your response to this letter is received. If possible, please provide a response to this review no later than June 9, 2000. If you have any questions in this regard please contact me, Lynn Kunzler, or Doug Jensen of the Minerals Staff. If you wish to arrange a meeting to sit down and discuss this review, please contact us at your earliest convenience. Thank you for your cooperation in completing this permitting action.

Sincerely,

D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

jb

Attachment: Review

cc: Mike Ford, BLM

Mary Ann Wright, DOGM

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REVIEW OF NOTICE OF INTENTION TO COMMENCE LARGE MINING OPERATIONS

Star Stone Quarries, Inc.
Rosebud 1 & 2
M/003/026
(May 2, 2000)

R647-4-110 - Reclamation Plan

110.2 Roads, highwalls, slopes, drainages, pits, etc., reclaimed

The Division received technical review comments from the BLM on April 14, 2000 (copy attached). Because the BLM is the federal land managing agency, these comments will need to be addressed and incorporated into your plan. The Division will not be able to issue tentative approval until the BLM issues are resolved. Of significance, the BLM will require that the waste dump material be pulled back into the excavations (pit or quarry areas). The Division has conservatively estimated the final volume of the dumps to be 50,000 cubic yards. Using a D-8 dozer, which appears to be the most economical, the cost of moving the waste material from the dumps to the pits is included on the attached reclamation surety estimate.

R647-4-111 - Reclamation Practices

R647-4-110.5 Revegetation Plan.

A review of the soils data supplied would indicate that the soil materials within the project area would greatly benefit by being amended with an application of composted manure at a rate of five tons per acre. This needs to be included in the reclamation plan for this site. This application has been incorporated in the attached reclamation surety estimate. (LK)

R647-4-112 - Variance

The NOI contains a request for variances from R647-4-106.5, R647-4-106.6, R647-4-107.5, and R647-4-109.3. The Division cannot grant variances to R647-4-106.5, R647-4-106.6, and R647-4-109.3 (besides, these rules have been addressed in the NOI). The operator has not provided adequate justification for granting a variance to R647-4-107.5 (soil salvage). Data supplied with the soil survey indicates that there is adequate soils that can be salvaged for reclamation. Therefore, the request for this variance *is denied*. (LK)

R647-4-113 - Surety

Attached is the Division's surety estimate for reclamation of the site. This estimate takes into account the BLM's requirement that the waste dump materials be pulled back and used as backfill to eliminate the pit (See letter from BLM dated April 13, 2000). (DJ)

RECLAMATION SURETY ESTIMATE

Star Stone Quarries Inc.

last revision

05/02/00

Rosebud Mine

DOGM file number M/003/026

Box Elder County

Prepared by Utah State Division of Oil, Gas & Mining

-This estimate uses a D8 size dozer for most earthwork

An allowance has been made for 0.7 acres of highwall that will not be reclaimed.

Because of the distance involved both a front end loader and dozer are used to spread soil & sub-soil

* Dump resloping is estimated material contained in dumps at the end of present mine life

Note: actual unit costs may vary according to site conditions last unit cost update 08/25/99

-Amount of disturbed area which will receive reclamation treatments = 8.8 acres

-Estimated total disturbed area for this mine = 9.5 acres

Activity	Quantity	Units	\$/unit	\$	Note
Safety gates, signs, etc. (mtls & installation)	0	sum	200	0	(1)
Demolition of buildings & facilities	0	CF	0.25	0	(2)
Debris & equipment removal - trucking	0	trips	48	0	(3)
Debris & equipment removal - dump fees	0	ton	55	0	(4)
Debris & equipment removal - loading trucks w/FE loader	0	hours	176	0	(5)
Demolition & debris removal - general labor	0	hours	15	0	(6)
Regrading facilities areas (1 ft depth)	0.0	acre	470	0	(7)
* Regrading waste dump slopes	50,000	CY	0.47	23,500	(8)
Ripping waste dump tops		acre	220	0	(9)
Ripping stockpile & compacted areas	1.0	acre	220	220	(9)
Ripping pit floors		acre	220	0	(9)
Ripping pit access roads	0.0	acre	220	0	(9)
Reestablish drainage		LF	0.15	0	(10)
Ripping access roads - dozer	0.7	acre	220	154	(9)
Regrading access roads - dozer	0.0	acre	470	0	(7)
Topsoil replacement - dozer(6" depth)	6980	CY	0.47	3,281	(12)
Topsoil replacement - FE loader	3490	CY	1.15	4,013	(14)
Sub-soil Placement - Dozer	4150	CY	0.47	1,951	
Sub-soil Placement - FE Loader	4150	CY	1.15	4,773	(00)
Composted manure (5 ton/acre)	8.8	acre	150	1,320	(00)
Broadcast seeding (~20 lb/acre)	8.8	acre	170	1,496	(00)
General site cleanup & trash removal @50%	4.4	acre	50	220	(00)
Equipment mobilization	3	equip	1000	3,000	(00)
Reclamation Supervision	8	days	372	2,976	(15)
		Subtotal		46,904	
10% Contingency				4,690	
		Subtotal		\$51,594	
Escalate for 5 years at 3.27% per yr				9,006	
		Total		\$60,600	
		Rounded surety amount in yr 2005-\$		\$60,600	
		Average cost per disturbed acre =		\$6,379	

GENERIC RECLAMATION ESTIMATE

Star Stone Quarries Inc.

last revision

05/02/00

Rosebud Mine

M/003/026

Box Elder County

Prepared by Utah State Division of Oil, Gas & Mining

last unit cost update

08/25/99

Note

- (1) DOGM lump sum assumed
- (2) Means Heavy Construction Cost Data 1998, 020-604-0100, mixture of bldg. types, average, excluding dump fees
- (3) Means 1998, 020-620-5100, \$0.48/mile for >8CY truck; assumed 100 miles round trip
- (4) Means 1998, 020-612-0100, dump charges, typical urban city, tipping fees only, bldg construction mtls
- (5) Rental Rate Blue Book 4/98, Cat 988B, 7CY, & Means 1998, Crew B-10U, loading trucks only
- (6) DOGM assumed wage for unskilled general labor
- (7) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth
- (8) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, mtl 2550 lb/CY, 300 ft push
- (9) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, multi shank rippers, speed 1.0 mph
- (9) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, multi shank rippers, speed 1.0 mph
- (9) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, multi shank rippers, speed 1.0 mph
- (10) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, avg vol 0.5CY/LF-berm assumed
- (9) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, multi shank rippers, speed 1.0 mph
- (7) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth
- (11) Contractor's actual costs, 1991 at E/053/012, Cat 225 Excavator, 20 ft wide road
- (10) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, avg vol 0.5CY/LF-berm assumed
- (12) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, mtl 2550 lb/CY, 250 ft push
- (13) Means 1998 & Rental Rate Blue Book 4/98: Cat 627F P-P, mtl 2550 lb/CY, 2,000 ft haul one-way, grade +/- 4%,
- (14) Hauling excavated or borrow material.
- (00) DOGM general estimate - mulching
- (00) DOGM general estimate - fertilizing
- (00) DOGM general estimate - manure \$26/ton delivered, \$20/acre spreading
- (00) DOGM general estimate - broadcast seeding
- (00) DOGM general estimate - drill seeding
- (00) DOGM general estimate - hydroseeding
- (00) DOGM general estimate - site cleanup & trash removal
- (00) DOGM general estimate - equipment mobilization
- (15) Means 1998, 010-036-0180, project manager, minimum \$1,815/wk